

FFFFFF	000000000	RRRRRRRRRRRR	RRRRRRRRRRRR	TTTTTTTTTTTTT	LLL		
FFFF	000000000	RRRRRRRRRRRR	RRRRRRRRRRRR	TTTTTTTTTTTTT	LLL		
FFFF	000000000	RRRRRRRRRRRR	RRRRRRRRRRRR	TTTTTTTTTTTTT	LLL		
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFFF	000	000	RRRRRRRRRRRR	RRRRRRRRRRRR	TTT	LLL	
FFFF	000	000	RRRRRRRRRRRR	RRRRRRRRRRRR	TTT	LLL	
FFFF	000	000	RRRRRRRRRRRR	RRRRRRRRRRRR	TTT	LLL	
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	TTT	LLL
FFF	000000000	RRR	RRR	RRR	TTT	LLLLLLLLLLLL	
FFF	000000000	RRR	RRR	RRR	TTT	LLLLLLLLLLLL	
FFF	000000000	RRR	RRR	RRR	TTT	LLLLLLLLLLLL	

FFFFFF	000000	RRRRRR	IIIIII	DDDDDDDD	AAAAAA	TTTTTTTT	EEEEEEEEE
FFFFFF	000000	RRRRRR	IIII	DDDDDDDD	AAAAAA	TTTTTTTT	EEEEEEEEE
FF	00	00	RR	RR	DD	AA	AA
FF	00	00	RR	RR	DD	AA	AA
FF	00	00	RR	RR	DD	AA	AA
FF	00	00	RR	RR	DD	AA	AA
FF	00	00	RRRRRR	II	DD	AA	AA
FF	00	00	RRRRRR	II	DD	AA	AA
FF	00	00	RR	RR	DD	DD	AAAAAA
FF	00	00	RR	RR	DD	DD	AAAAAA
FF	00	00	RR	RR	DD	AA	AA
FF	00	00	RR	RR	DD	AA	AA
FF	000000	RR	RR	IIIIII	DDDDDDDD	AA	AA
FF	000000	RR	RR	IIIIII	DDDDDDDD	AA	AA

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLL	IIIIII	SSSSSSSS

FOR\$IDATE
Table of contents

; Time and date as short integers^{H 15} 15-SEP-1984 23:53:01 VAX/VMS Macro V04-00

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(2) 49 HISTORY ; Detailed Current Edit History
(3) 58 DECLARATIONS
(4) 84 FOR\$IDATE - return month, day, year as INTEGER*2

0000 1 .TITLE FOR\$IDATE ; Time and date as short integers
0000 2 .IDENT /1-002/ ; File: FORIDATE.MAR
0000 3
0000 4
0000 5 *****
0000 6 *
0000 7 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 23 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 .FACILITY: FORTRAN SYSTEM LIBRARY
0000 30 ++
0000 31 .ABSTRACT:
0000 32
0000 33 . Return current month, day, and year as one-word integer values.
0000 34
0000 35 --
0000 36
0000 37 .VERSION: 0
0000 38
0000 39 .HISTORY:
0000 40
0000 41 .AUTHOR:
0000 42 Jonathan M. Taylor, 17-Aug-77: Version 0
0000 43
0000 44 .MODIFIED BY:
0000 45
0000 46
0000 47

FOR\$IDATE
1-002

J 15 ; Time and date as short integers 15-SEP-1984 23:53:01 VAX/VMS Macro V04-00
HISTORY ; Detailed Current Edit History 6-SEP-1984 10:56:21 [FORRTL.SRC]FORIDATE.MAR;1 Page 2 (2)

0000 49 .SBTTL HISTORY ; Detailed Current Edit History
0000 50
0000 51
0000 52 : Edit History for Version 0 of FOR\$IDATE
0000 53 :
0000 54 : 0-2 - Remove FOR\$FLAG_JACKET. TNH 11-July-78
0000 55 : 1-001 - Update version number and copyright notice. JBS 16-NOV-78
0000 56 : 1-002 - Add "_" to the PSECT directive. JBS 22-DEC-78

```
0000 58 .SBTTL DECLARATIONS
0000 59
0000 60
0000 61 : INCLUDE FILES:
0000 62 :     oerr.mar
0000 63
0000 64 : EXTERNAL SYMBOLS:
0000 65
0000 66 :
0000 67
0000 68
0000 69 : MACROS:
0000 70 :
0000 71
0000 72 :
0000 73 : PSECT DECLARATIONS:
0000 74     .PSECT _FOR$CODE      PIC, SHR, LONG, EXE, NOWRT
0000 75
0000 76 :
0000 77 : EQUATED SYMBOLS:
0000 78 :
0000 79
0000 80 :
0000 81 : OWN STORAGE:
0000 82 :     none
```

```

0000 84 .SBTTL FOR$IDATE - return month, day, year as INTEGER*2
0000 85
0000 86 ++
0000 87 :+ FUNCTIONAL DESCRIPTION:
0000 88
0000 89 :+ FOR$IDATE uses system service $NUMTIM to get date information.
0000 90 :+ This information is converted to the appropriate type and stored
0000 91 :+ through the addresses passed as parameters.
0000 92
0000 93 :+ CALLING SEQUENCE:
0000 94
0000 95 CALL FOR$IDATE (month.ww.r, day.ww.r, year.ww.r)
0000 96
0000 97 :+ INPUT PARAMETERS:
0000 98
0000 99 :+ month.ww.r adr of word to place month (1-12) integer
0000 100 :+ day.ww.r adr of word to place day (1-31) integer
0000 101 :+ year.ww.r adr of word to place year (0-99)integer
0000 102
0000 103 :+ IMPLICIT INPUTS:
0000 104 :+ NONE
0000 105
0000 106 :+ OUTPUT PARAMETERS:
0000 107 :+ NONE
0000 108
0000 109 :+ IMPLICIT OUTPUTS:
0000 110 :+ NONE
0000 111
0000 112 :+ COMPLETION CODES:
0000 113 :+ NONE
0000 114
0000 115 :+ SIDE EFFECTS:
0000 116 :+ SIGNALS Integer Overflow (this should never happen)
0000 117
0000 118 :+--+
0000 119
0000 120
0000 121
0000 122 .ENTRY FOR$IDATE, ^M<IV>
5E 10 C2 0000 123 SUBL #16, SP ; save 8 words for $NUMTIM
50 5E D0 0002 123
50 8E 3C 0005 124 MOVL SP, R0 ; R0 -> data area
50 8E 3C 0008 124
50 51 D4 0013 125 $NUMTIM_S (R0) ; get system time values
50 8F 7B 0016 125
50 50 B0 0018 126 MOVZWL (SP)+, R0 ; R0 = 'year since 0'
50 BC 50 B0 0021 126
04 BC 8E B0 0025 127 CLRL R1 ; R0 is now a quadword value
08 BC 6E B0 0029 127
04 002D 128 EDIV #100, R0, R0, R0 ; R0 = two digit year value
002E 128
002E 129 MOVW R0, @12(AP) ; return year
002E 130 MOVW (SP)+, @4(AP) ; return month
002E 131 MOVW (SP), @8(AP) ; return day
002E 132 RET ; return
002E 133
002E 134
002E 135 .END

```

FORSIDATE Symbol table

Time and date as short integers

M 15

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(4)

FOR\$IDATE 00000000 RG 01
SYS\$NUMTIN **** G 01

! Psect synopsis

PSECT name

Allocation PSECT No. Attributes

• ABS FOR\$CODE 00000000 (0.) 00 (0.) NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
• FOR\$CODE 0000002E (46.) 01 (1.) PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
-------	-------------	----------	--------------

Initialization	29	00:00:00.05	00:00:00.84
Command processing	105	00:00:00.55	00:00:03.53
Pass 1	98	00:00:00.53	00:00:02.79
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	38	00:00:00.34	00:00:01.47
Symbol table output	2	00:00:00.02	00:00:00.12
Psect synopsis output	2	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	276	00:00:01.52	00:00:08.78

The working set limit was 900 pages

1677 bytes (4 pages) of virtual memory were used to buffer the intermediate code. There were 10 pages of symbol table space allocated to hold 2 non-local and 0 local symbols. 135 source lines were read in Pass 1, producing 11 object records in Pass 2. 2 pages of virtual memory were used to define 2 macros.

! Macro library statist

Macro library name

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

13 GETS were required to define 2 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:FORIDATE/OBJ=OBJ\$:FORIDATE MSRC\$:FORIDATE/UPDATE=(ENH\$:FORIDATE)

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